

(No Model.)

F. SOUNAT.
TOY WATCH.

No. 505,966.

Patented Oct. 3, 1893.

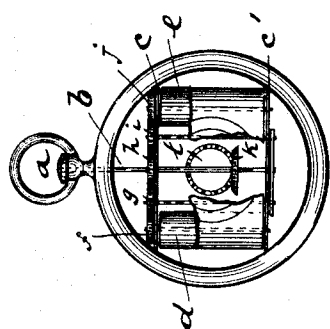


Fig. 3.



Fig. 6.

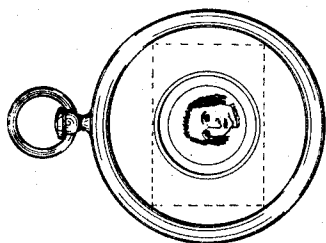


Fig. 2.

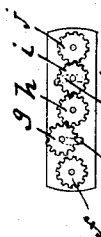


Fig. 5.

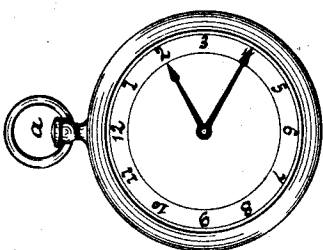


Fig. 1.

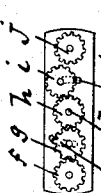


Fig. 4.

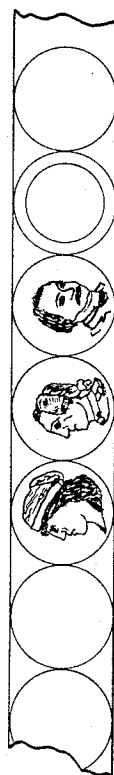


Fig. 7.

WITNESSES:

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FRANÇOIS SOUNAT, OF CAHORS, FRANCE.

TOY WATCH.

SPECIFICATION forming part of Letters Patent No. 505,966, dated October 3, 1893.

Application filed June 19, 1893. Serial No. 478,117. (No model.) Patented in France September 22, 1892, No. 225,738.

To all whom it may concern:

Be it known that I, FRANÇOIS SOUNAT, a citizen of the French Republic, residing in Cahors, (Lot,) in the Republic of France, have invented certain new and useful Improvements in Toy Watches, (for which I have obtained a patent in France, No. 225,738, dated September 22, 1892;) and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to a new and useful improvement in scientific or toy watches and it consists in the combination in said watch of movable hands, mechanism for moving the same about the face or dial controlled from the stem of the watch together with the belt or band containing pictures, &c., wound upon rollers, and mechanism for winding or unwinding said band upon said rollers to expose at an opening in the rear case of the watch successive pictures on said band.

It consists also in the combination and arrangement of parts, substantially as hereinafter described and claimed.

In the drawings Figure 1 is a face or front view of the watch; Fig. 2 a rear view of the same; Fig. 3 a view similar to Fig. 1, the front of the watch being removed to expose the operating mechanism. Figs. 4, 5 and 6 are detail views of certain portions of the mechanism showing means for winding and unwinding the pictorial band on the rollers, and Fig. 7 is a face view of the pictorial band enlarged.

The hands of the watch are operated from the stem *a* of the watch through a spindle *b* passing through the center of the watch and having its bearings in the plates or brackets *c* and *c'* arranged within the watch transversely to the said spindle. Keyed to this spindle *b* is a miter wheel *k* operating with its meshing wheel *l* the shaft upon which the hands of the watch are secured. Revolving in bearings in the brackets *c* and *c'* are two rollers *d* and *e* upon which the pictorial band or ribbon is wound in the manner hereinafter described. These rollers *d* and *e* are pro-

vided at one end with pinions *f* and *j* respectively. Intermediate between the pinions *f* and *j* are pinions *g*, *h* and *i* meshing together in a circular or curved line. The pinion *h* is secured to the spindle *b* while the pinions *g* and *i* are secured to spindles *n* and *n'* passing through the brackets and having a bearing in a plate *m* slotted to one bracket *c'* and adapted to be turned thereon by the spindle *b* to which it is secured. By this arrangement when the plate *m* is turned in either direction the pinions *g* and *i* are turned about the center pinion *h* and bring said pinion *h* into gear either with the pinion *f* operating the roller *d* or pinion *j* operating the roller *e*. The successive positions of the pinions *g* and *i* are shown in Figs. 4 and 5.

The pictorial band is attached at each end to one roller and wound up thereon in such a manner that it may be wound up on one while unwinding from the other and vice versa. Its face is always exposed to a circular or square opening in the rear case of the watch.

When the stem *a* is turned for instance to the right, the hands are operated through the spindle *b* from left to right and the pinions *g*, and *i* are moved by the plate *m* into the position shown at Fig. 5, in which the pinion *i* meshes with the pinion *j* of roller *e* and the ribbon or band is wound upon said roller and unwound from roller *d*. When the stem *a* is turned in the opposite direction the hands are turned from right to left and the pinions *g* and *i* occupy the position shown in Fig. 4, the pinion *g* meshing with pinion *f* of roller *d*, being moved into said position by the plate *m*. The ribbon is then wound about the roller *d* and unwound from roller *e*. In this manner successive pictures, inscriptions or the like are exposed to view through recess or opening in the back of the watch.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a toy watch, the combination of the crown and spindle, with the case having an opening therein, a pictorial band, rollers upon which said band is wound to expose its face to the opening in the case, and with intermediate gear pinions connecting said roll-

ers to the spindle whereby the band may be wound upon either roller upon turning the crown and spindle, substantially as described.

2. In a toy watch, the combination of the
5 case having an opening therein, brackets secured transversely within said case, a spindle having a bearing in said brackets, a plate turning partly with said spindle and slotted to one of said brackets, rollers arranged at
10 either end of said bracket, a pinion secured to each roller and adapted to turn the same, a series of intermediate meshing pinions adapted to be shifted by the spindle and plate into engagement alternately with pin-

ion of each roller and to turn said roller, and 15 with a pictorial band wound upon said rollers to expose its face to the opening in said case, all arranged so that said band may be alternately wound or unwound upon said rollers when the spindle and intermediate pinions 20 are operated, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of May, 1893.

FRANÇOIS SOUNAT.

Witnesses:

JACQUES MIGUEL,
LOUIS LURIVÉE.